

Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) **EP 1 206 141 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
21.04.2004 Bulletin 2004/17

(51) Int Cl.7: **H04N 9/82**

(43) Date of publication A2:
15.05.2002 Bulletin 2002/20

(21) Application number: **01309390.1**

(22) Date of filing: **06.11.2001**

(84) Designated Contracting States:
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE TR**
Designated Extension States:
AL LT LV MK RO SI

(72) Inventor: **Sato, Masahiko, c/o Sony Corporation
Tokyo (JP)**

(74) Representative:
**Robinson, Nigel Alexander Julian et al
D. Young & Co.,
21 New Fetter Lane
London EC4A 1DA (GB)**

(30) Priority: **13.11.2000 JP 2000345401**

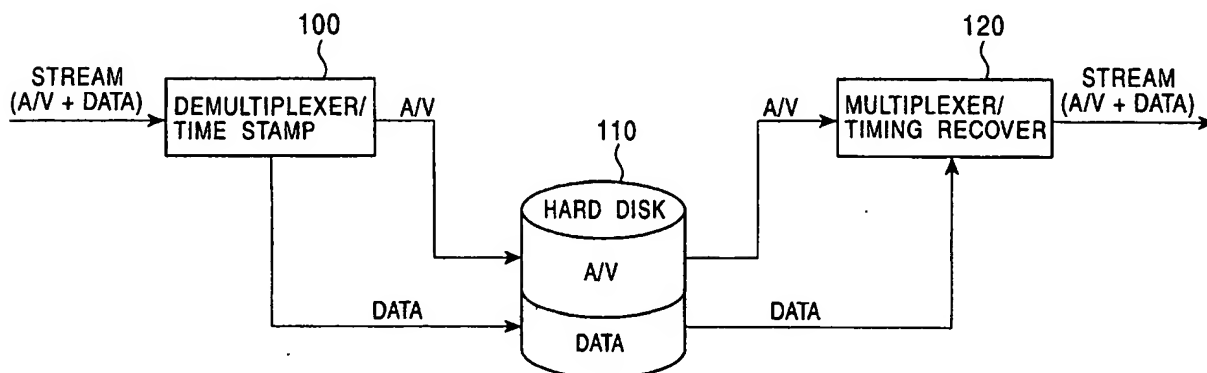
(71) Applicant: **Sony Corporation
Tokyo 141-0001 (JP)**

(54) **Digital-broadcast recording/playback apparatus**

(57) A digital-content recording/playback apparatus separately records content and an A/V stream and plays back the separately recorded content and A/V stream.

When separately recording the content and the A/V stream, a time at which the transmission of the content ends is added, as a time stamp which can be synchronized with the A/V stream, to the content.

FIG. 1





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number

EP 01 30 9390

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
P,Y	EP 1 128 674 A (TOKYO BROADCASTING SYST ; HARADA SATOSHI (JP)) 29 August 2001 (2001-08-29) * the whole document * & WO 00 28737 A (TOKYO BROADCASTING SYSTEM INC.) 18 May 2000 (2000-05-18) ---	1-6	H04N9/82
Y	WO 98 48566 A (MANKOVITZ ROY J ; GEMSTAR DEV CORP (US)) 29 October 1998 (1998-10-29) * page 4, line 34 - page 5, line 29 * * figure 1 * ---	1-6	
A	WO 00 01149 A (NDS LTD ; WACHTFOGEL REUVEN (IL); KIPNIS SHLOMO (IL); TSURIA YOSSEF) 6 January 2000 (2000-01-06) * abstract * * page 4 * * page 12, paragraph 2 * * page 13, paragraph 4 * * page 14, paragraph 4 - page 15, paragraph 1 * * page 17 * * page 24, paragraph 5 - paragraph 6 * * page 27, paragraph 1 - paragraph 2 * * page 28, paragraph 5 * * page 33, paragraph 1 * ---	1-6	TECHNICAL FIELDS SEARCHED (Int.Cl.7) H04N G11B
A	EP 0 804 028 A (SONY CORP) 29 October 1997 (1997-10-29) * page 6, line 30 - line 35 * * figures 1-3,7 * --- -/--	1-6	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 3 March 2004	Examiner Braga, J
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 01 30 9390

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
A	<p>"INFORMATION TECHNOLOGY - GENERIC CODING OF MOVING PICTURES AND ASSOCIATED AUDIO INFORMATION: SYSTEMS"</p> <p>INTERNATIONAL STANDARD, NEW YORK, NY, US, 15 April 1996 (1996-04-15), pages I-XY,1-119, XP000667435</p> <p>* paragraph [2.1.42] *</p> <p>* page 9 *</p> <p>* page 11 *</p> <p>* figure F2 *</p> <p>-----</p>	5,6	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
The present search report has been drawn up for all claims			
Place of search	Date of completion of the search	Examiner	
THE HAGUE	3 March 2004	Braga, J	
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone</p> <p>Y : particularly relevant if combined with another document of the same category</p> <p>A : technological background</p> <p>O : non-written disclosure</p> <p>P : intermediate document</p> <p>T : theory or principle underlying the invention</p> <p>E : earlier patent document, but published on, or after the filing date</p> <p>D : document cited in the application</p> <p>L : document cited for other reasons</p> <p>.....</p> <p>& : member of the same patent family, corresponding document</p>			

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 01 30 9390

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

03-03-2004

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
EP 1128674	A	29-08-2001	AU	1078100 A	29-05-2000
			EP	1128674 A1	29-08-2001
			CN	1324544 T	28-11-2001
			WO	0028737 A1	18-05-2000

WO 9848566	A	29-10-1998	AU	7684198 A	13-11-1998
			EP	0978198 A2	09-02-2000
			JP	2001501068 T	23-01-2001
			WO	9848566 A2	29-10-1998

WO 0001149	A	06-01-2000	AT	230912 T	15-01-2003
			AU	758092 B2	13-03-2003
			AU	4388999 A	17-01-2000
			CA	2300979 A1	06-01-2000
			CN	1273741 T	15-11-2000
			DE	69904799 D1	13-02-2003
			DE	69904799 T2	20-11-2003
			DK	1013088 T3	24-02-2003
			EP	1180768 A2	20-02-2002
			EP	1235223 A2	28-08-2002
			EP	1335593 A2	13-08-2003
			EP	1013088 A1	28-06-2000
			ES	2189430 T3	01-07-2003
			GB	2339503 A	26-01-2000
			WO	0001149 A1	06-01-2000
			NZ	503002 A	28-06-2002
			US	2003088872 A1	08-05-2003

EP 0804028	A	29-10-1997	EP	0804028 A1	29-10-1997
			JP	3401789 B2	28-04-2003
			US	6233735 B1	15-05-2001
			WO	9718672 A1	22-05-1997
			JP	9200729 A	31-07-1997
